

Claims

1. Door having a one-piece or sectional door leaf,
5 particularly a door which is movable with a vertical
component, preferably a sliding, rolling, one-piece or
sectional up-and-over door, which is operated by means
of cables which can be wound onto or unwound from cable
drums (2) non-rotationally mounted on a shaft (1),
10 optionally with a torsion spring device acting on the
shaft so as to compensate for the weight of the door,
and with a built-on device for the attachment of a drive
mechanism on the shaft (1) for imparting an operating
movement, whilst a carrier (8) is non-rotatably mounted
15 on the shaft (1) and in one of its end portions outside
the associated shaft bearing, characterised by
an assembly of different drive mechanisms (12, 13; 14;
22, 24), namely

20 - a drive motor with a transmission gear connected
behind it, the output shaft of which is in geared
connection, via a pinion and a chain (13) engaging
therein, with a chain pinion engaging in said output
shaft - when limited lateral space is available -

25 - a drive motor with a transmission gear connected
behind it having a housing, e.g. a chain housing (15),
on which an output power take-off member (18) is
mounted, - when moderate lateral space is available -
and

30 - a drive motor with a transmission gear connected
behind it, the output power take-off member (23) of
which is connected to an adapter (24) - when more
lateral space is available -,
whilst one of these drive assemblies may be selected to
be connected to the carrier (8), particularly via a
35 flange connection, by means of the chain pinion (12),
the output power take-off member (18) or the adapter
(24), all suitably constructed, whilst the cables are

connected to the door leaf by their ends remote from the drum (2).

2. Door according to claim 1, characterised in that
5 the carrier (8) has a flange structure (11) to which the chain pinion (12) may be attached directly and to which the output power take-off member (18) and the adapter (24) may be attached via a connecting portion (19) in the form of a flange.

10 3. Door according to claim 2, characterised in that the attachment to the carrier is effected by screwing (21).

15 4. Door according to one of claims 1 to 3, characterised in that the shaft (1) is provided with a longitudinal groove structure (5) running parallel to the axial direction of the shaft, in the direction from the outside of the shaft inwards towards the shaft axis, 20 in which a wedge formation (9) on the hub of the carrier (8) engages.

25 5. Door according to one of claims 1 to 4, characterised in that the shaft (1) is constructed as a tube.

30 6. Door according to one of claims 1 to 5, characterised in that the carrier (8) has at least one radially movable screw (10) which acts on the shaft (1) at least in order to secure the carrier (8) axially in position.

35 7. Door according to one of claims 1 to 6, characterised in that the adapter (24) has a connecting portion (19) for non-rotational attachment to the carrier (8) and a connecting shaft (26) for non-rotational engagement in an output power take-off member

of a drive motor assembly (22), said power take-off member being constructed as a hollow shaft.

8. Door according to one of claims 1 to 6,
5 characterised in that the adapter (24) has a connecting portion (19) for non-rotational connection to the carrier (8) and a hollow shaft construction (27) for non-rotationally accommodating a shaft end (23) of the output power take-off member of the drive assembly (22).